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	ENTRY	SESSION
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STRUCTURE FILE UPDATES: 24 APR 2007 HIGHEST RN 932392-31-9
DICTIONARY FILE UPDATES: 24 APR 2007 HIGHEST RN 932392-31-9

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=>
Uploading C:\Program Files\Stnexp\Queries\10573204.str



chain nodes :

10 11 18 19 20 21 22 23 24 27

ring nodes :

1 2 3 4 5 6 7 8 9 12 13 14 15 16 17

chain bonds :

8-10 9-19 10-11 10-20 10-27 11-12 11-21 11-22 13-23 15-24 16-18

ring bonds :

1-2 1-6 2-3 3-4 3-7 4-5 4-9 5-6 7-8 8-9 12-13 12-17 13-14 14-15 15-16
16-17

exact/norm bonds :

3-7 4-9 7-8 8-9 10-27 16-18

exact bonds :

8-10 9-19 10-11 10-20 11-12 11-21 11-22 13-23 15-24

normalized bonds :

1-2 1-6 2-3 3-4 4-5 5-6 12-13 12-17 13-14 14-15 15-16 16-17

isolated ring systems :

containing 1 : 12 :

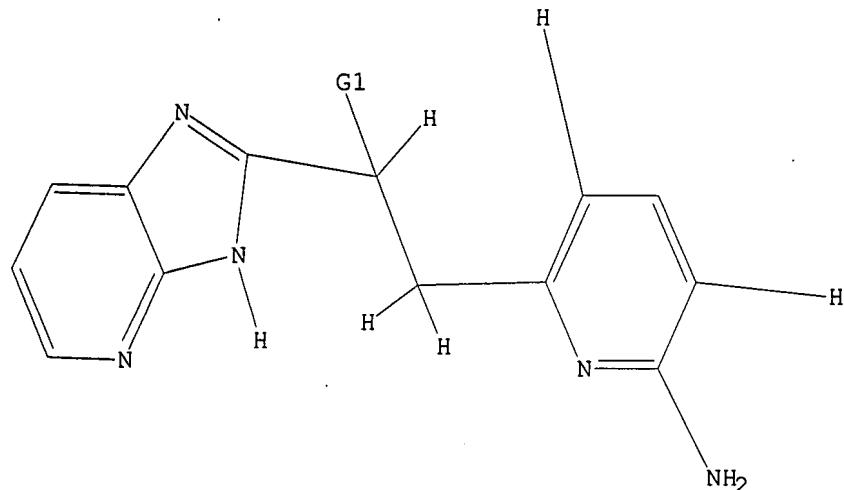
G1:C,H

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:CLASS
11:CLASS 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:CLASS 19:CLASS
20:CLASS 21:CLASS 22:CLASS 23:CLASS 24:CLASS 27:CLASS

L1 STRUCTURE UPLOADED

=> d 11
L1 HAS NO ANSWERS
L1 STR



G1 C, H

Structure attributes must be viewed using STN Express query preparation.

=> s 11
SAMPLE SEARCH INITIATED 12:54:26 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 8 TO ITERATE

100.0% PROCESSED 8 ITERATIONS 0 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 8 TO 329
PROJECTED ANSWERS: 0 TO 0

L2 0 SEA SSS SAM L1

=> s 11 full
FULL SEARCH INITIATED 12:54:30 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 163 TO ITERATE

100.0% PROCESSED 163 ITERATIONS 27 ANSWERS
SEARCH TIME: 00.00.01

L3 27 SEA SSS FUL L1

=> file caplus
COST IN U.S. DOLLARS SINCE FILE TOTAL
FULL ESTIMATED COST ENTRY SESSION
172.10 172.31

FILE 'CAPLUS' ENTERED AT 12:54:35 ON 25 APR 2007
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FILE COVERS 1907 - 25 Apr 2007 VOL 146 ISS 18
FILE LAST UPDATED: 24 Apr 2007 (20070424/ED)

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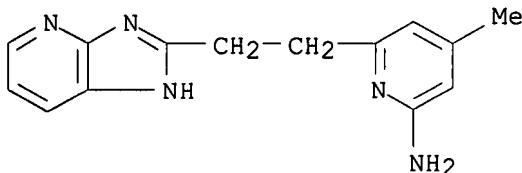
=> s 13 full
L4 2 L3

=> d ibib abs hitstr tot

L4 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2006:43156 CAPLUS
DOCUMENT NUMBER: 144:163527
TITLE: The novel imidazopyridine 2-[2-(4-Methoxy-pyridin-2-yl)-ethyl]-3H-imidazo[4,5-b]pyridine (BYK191023) is a highly selective inhibitor of the inducible nitric-oxide synthase
AUTHOR(S): Strub, Andreas; Ulrich, Wolf-Ruediger; Hesslinger, Christian; Eltze, Manfrid; Fuchss, Thomas; Strassner, Jochen; Strand, Susanne; Lehner, Martin D.; Boer, Rainer
CORPORATE SOURCE: Departments of Biochemistry, Chemistry and Pharmacology, ALTANA Pharma AG, Konstanz, Germany
SOURCE: Molecular Pharmacology (2006), 69(1), 328-337
CODEN: MOPMA3; ISSN: 0026-895X
PUBLISHER: American Society for Pharmacology and Experimental Therapeutics
DOCUMENT TYPE: Journal
LANGUAGE: English
AB We have identified imidazopyridine derivs. as a novel class of NO synthase inhibitors with high selectivity for the inducible isoform. 2-[2-(4-Methoxy-pyridin-2-yl)-ethyl]-3H-imidazo[4,5-b]pyridine (BYK191023) showed half-maximal inhibition of crudely purified human inducible (iNOS), neuronal (nNOS), and endothelial (eNOS) NO synthases at 86 nM, 17 μ M, and 162 μ M, resp. Inhibition of inducible NO synthase was competitive with L-arginine, pointing to an interaction of BYK191023 with the catalytic center of the enzyme. In radioligand and surface plasmon resonance expts., BYK191023 exhibited an affinity for iNOS, nNOS, and eNOS of 450 nM, 30 μ M, and >500 μ M, resp. Inhibition of cellular nitrate/nitrite synthesis in RAW, rat mesangium, and human embryonic kidney 293 cells after iNOS induction showed 40- to 100-fold higher IC₅₀ values than at the isolated enzyme, in agreement with the much higher L-arginine concns. in cell culture media and inside intact cells. BYK191023 did not show any toxicity in various rodent and human cell lines up to high micromolar concns. The inhibitory potency of BYK191023 was tested in isolated organ models of iNOS (lipopolysaccharide-treated and phenylephrine-precontracted rat aorta; IC₅₀ = 7 μ M), eNOS (arecaidine propargyl ester-induced relaxation of phenylephrine-precontracted rat aorta; IC₅₀ > 100 μ M), and nNOS (field-stimulated relaxation of phenylephrine-precontracted rabbit corpus cavernosum; IC₅₀ > 100 μ M). These data confirm the high selectivity of BYK191023 for iNOS over eNOS and nNOS found at isolated enzymes. In summary, we have identified a new

highly selective iNOS inhibitor structurally unrelated to known compds. and L-arginine. BYK191023 is a valuable tool for the investigation of iNOS-mediated effects in vitro and in vivo.

IT 857379-46-5, BYK 237007
 RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (structure activity relationship studied of imidazopyridine compds. as selective inhibitors of nitric-oxide synthase isoforms)
 RN 857379-46-5 CAPLUS
 CN 2-Pyridinamine, 6-[2-(1H-imidazo[4,5-b]pyridin-2-yl)ethyl]-4-methyl- (9CI)
 (CA INDEX NAME)



REFERENCE COUNT: 40 THERE ARE 40 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 2005:588961 CAPLUS
 DOCUMENT NUMBER: 143:115536
 TITLE: A preparation of (aminopyridinylethyl)imidazolopyridine derivatives, useful as inductible NO-synthase inhibitors
 INVENTOR(S): Boer, Rainer; Marx, Degenhard; Ulrich, Wolf-Ruediger; Eltze, Manfrid; Nave, Ruediger; Strub, Andreas; Graedler, Ulrich; Fuchss, Thomas
 PATENT ASSIGNEE(S): Altana Pharma A.-G., Germany
 SOURCE: PCT Int. Appl., 63 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005061496	A1	20050707	WO 2004-EP52373	20040930
WO 2005061496	A8	20060216		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2004303515	A1	20050707	AU 2004-303515	20040930
CA 2540230	A1	20050707	CA 2004-2540230	20040930
EP 1670798	A1	20060621	EP 2004-820599	20040930
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK, HR				
CN 1856493	A	20061101	CN 2004-80027807	20040930
BR 2004015034	A	20061212	BR 2004-15034	20040930
JP 2007507464	T	20070329	JP 2006-530261	20040930
US 2007043072	A1	20070222	US 2006-573204	20060324

NO 2006001789
PRIORITY APPLN. INFO.:

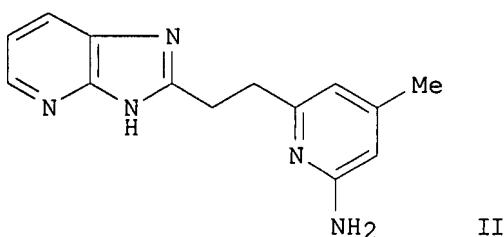
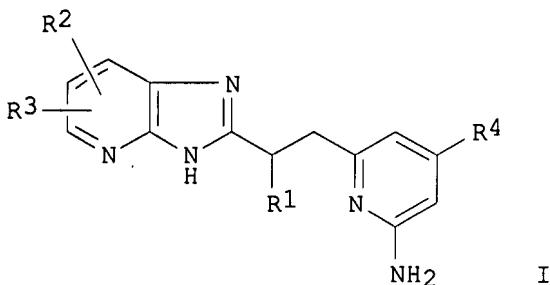
A 20060424

NO 2006-1789
EP 2003-22040
WO 2004-EP52373

20060424
A 20031001
W 20040930

OTHER SOURCE(S):
GI

MARPAT 143:115536



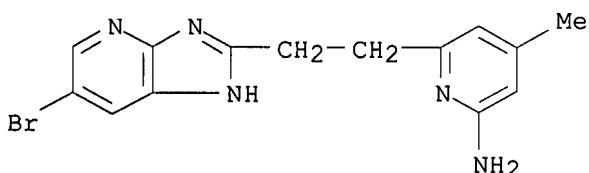
AB The invention relates to a preparation of (aminopyridinylethyl)imidazolopyrididine derivs. of formula I [wherein: R1 is H or alkyl; R2 is H, halogen, NH2, (cyclo)alkyl, or CF3, etc.; R3 is H, halogen, alkyl, or alkoxy; R4 is alkyl or alkoxy], useful as antiinflammatory agents (inductible NO-synthase inhibitors). For instance, (aminopyridinylethyl)imidazolopyrididine derivative II was prepared via condensation of 4-methyl-2-(tritylamo)picolinaldehyde with [3H-imidazo[4,5-b]pyridin-2-ylmethyl]triphenylphosphonium chloride and subsequent reduction of the obtained intermediate. The invention compds. were tested for NO-synthase activity [-logIC50(mol/L) values range from 6.58 to 8.15].

IT 857379-53-4P 857379-56-7P

RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
(preparation of (aminopyridinylethyl)imidazolopyridine derivs. useful as inductible NO-synthase inhibitors)

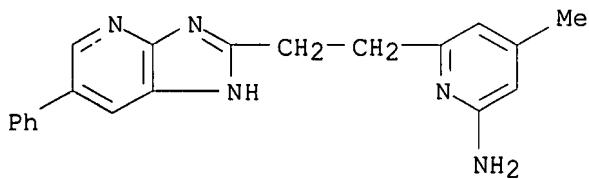
RN 857379-53-4 CAPLUS

CN 2-Pyridinamine, 6-[2-(6-bromo-1H-imidazo[4,5-b]pyridin-2-yl)ethyl]-4-methyl- (9CI) (CA INDEX NAME)



RN 857379-56-7 CAPLUS

CN 2-Pyridinamine, 4-methyl-6-[2-(6-phenyl-1H-imidazo[4,5-b]pyridin-2-yl)ethyl]- (9CI) (CA INDEX NAME)

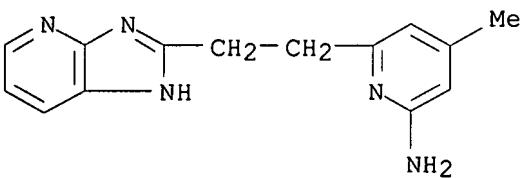


IT 857379-46-5P 857379-49-8P 857379-50-1P
 857379-51-2P 857379-57-8P 857379-58-9P
 857379-61-4P 857379-63-6P 857379-65-8P
 857379-66-9P 857379-68-1P 857379-69-2P
 857379-71-6P 857379-72-7P 857379-73-8P
 857379-74-9P 857379-75-0P 857379-76-1P
 857379-77-2P 857379-78-3P 857379-79-4P
 857379-81-8P 857380-22-4P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (preparation of (aminopyridinylethyl)imidazolopyridine derivs. useful as inducible NO-synthase inhibitors)

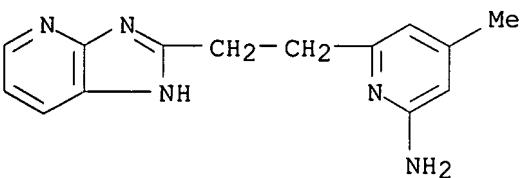
RN 857379-46-5 CAPLUS

CN 2-Pyridinamine, 6-[2-(1H-imidazo[4,5-b]pyridin-2-yl)ethyl]-4-methyl- (9CI)
 (CA INDEX NAME)



RN 857379-49-8 CAPLUS

CN 2-Pyridinamine, 6-[2-(1H-imidazo[4,5-b]pyridin-2-yl)ethyl]-4-methyl-, hydrochloride (9CI) (CA INDEX NAME)



● x HCl

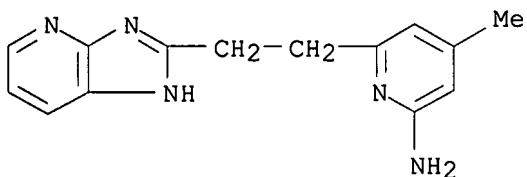
RN 857379-50-1 CAPLUS

CN 2-Pyridinamine, 6-[2-(1H-imidazo[4,5-b]pyridin-2-yl)ethyl]-4-methyl-, acetate (9CI) (CA INDEX NAME)

CM 1

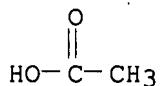
CRN 857379-46-5

CMF C14 H15 N5

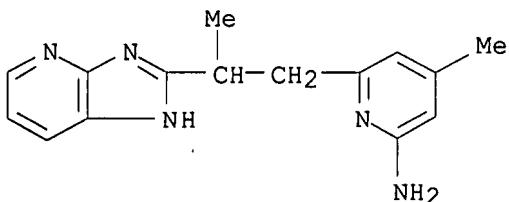


CM 2

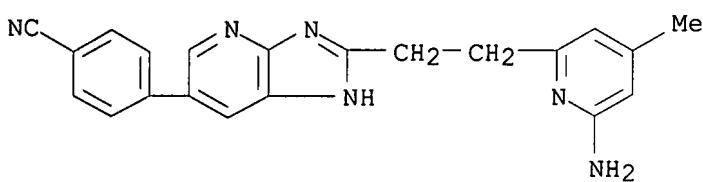
CRN 64-19-7
CMF C2 H4 O2



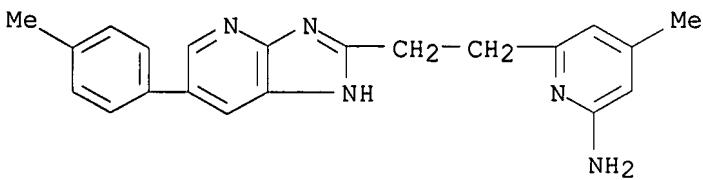
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CN 2-Pyridinamine, 6-[2-(1H-imidazo[4,5-b]pyridin-2-yl)propyl]-4-methyl- (9CI) (CA INDEX NAME)



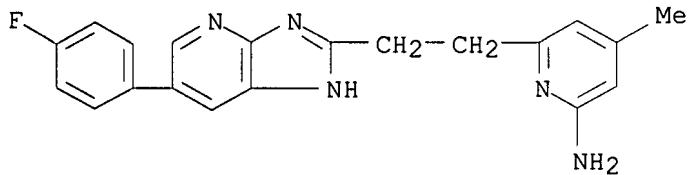
RN 857379-57-8 CAPLUS
CN Benzonitrile, 4-[2-[2-(6-amino-4-methyl-2-pyridinyl)ethyl]-1H-imidazo[4,5-b]pyridin-6-yl]- (9CI) (CA INDEX NAME)



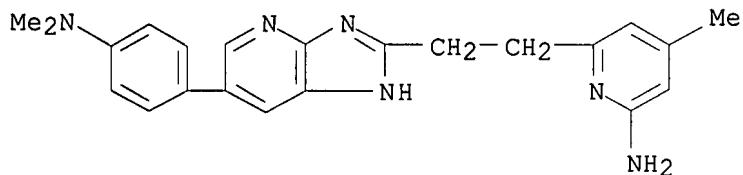
RN 857379-58-9 CAPLUS
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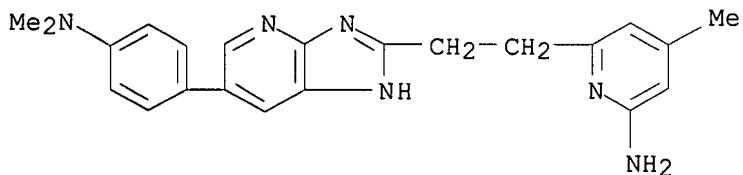
RN 857379-61-4 CAPLUS
CN 2-Pyridinamine, 6-[2-[6-(4-fluorophenyl)-1H-imidazo[4,5-b]pyridin-2-yl]ethyl]-4-methyl- (9CI) (CA INDEX NAME)



RN 857379-63-6 CAPLUS
 CN 2-Pyridinamine, 6-[2-[6-[4-(dimethylamino)phenyl]-1H-imidazo[4,5-b]pyridin-2-yl]ethyl]-4-methyl- (9CI) (CA INDEX NAME)

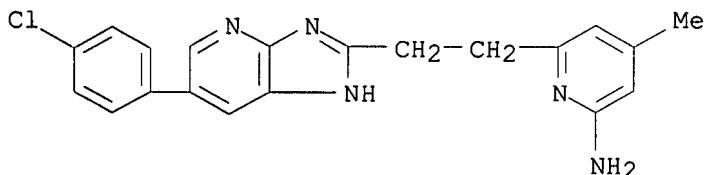


RN 857379-65-8 CAPLUS
 CN 2-Pyridinamine, 6-[2-[6-[4-(dimethylamino)phenyl]-1H-imidazo[4,5-b]pyridin-2-yl]ethyl]-4-methyl-, monohydrochloride (9CI) (CA INDEX NAME)

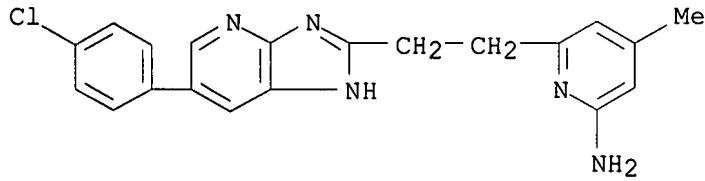


● HCl

RN 857379-66-9 CAPLUS
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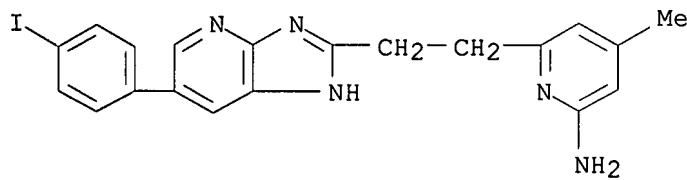


RN 857379-68-1 CAPLUS
 CN 2-Pyridinamine, 6-[2-[6-(4-chlorophenyl)-1H-imidazo[4,5-b]pyridin-2-yl]ethyl]-4-methyl-, hydrochloride (9CI) (CA INDEX NAME)

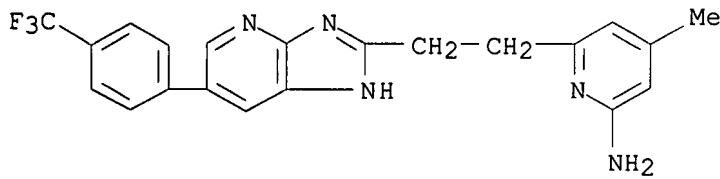


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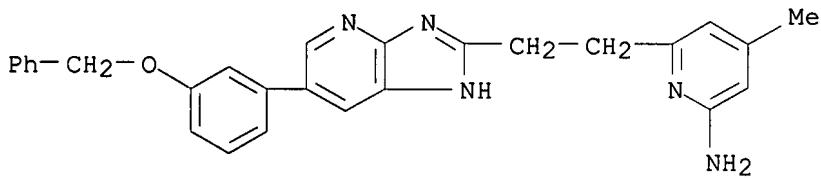
RN 857379-69-2 CAPLUS
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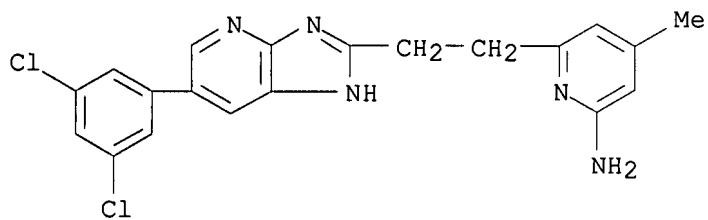
RN 857379-71-6 CAPLUS
 CN 2-Pyridinamine, 4-methyl-6-[2-[6-[4-(trifluoromethyl)phenyl]-1H-imidazo[4,5-b]pyridin-2-yl]ethyl]- (9CI) (CA INDEX NAME)



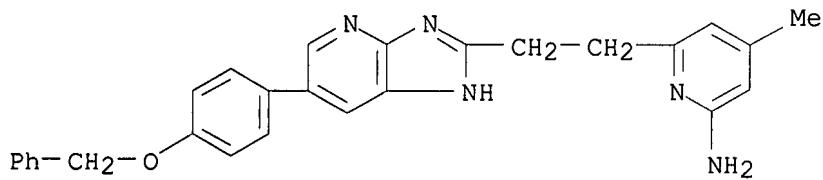
RN 857379-72-7 CAPLUS
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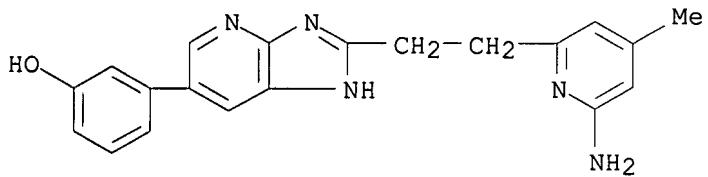
RN 857379-73-8 CAPLUS
 CN 2-Pyridinamine, 6-[2-[6-(3,5-dichlorophenyl)-1H-imidazo[4,5-b]pyridin-2-yl]ethyl]-4-methyl- (9CI) (CA INDEX NAME)



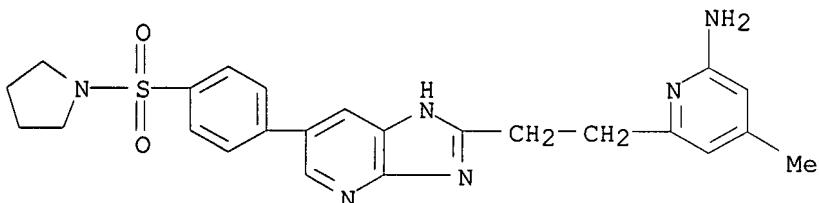
RN 857379-74-9 CAPLUS
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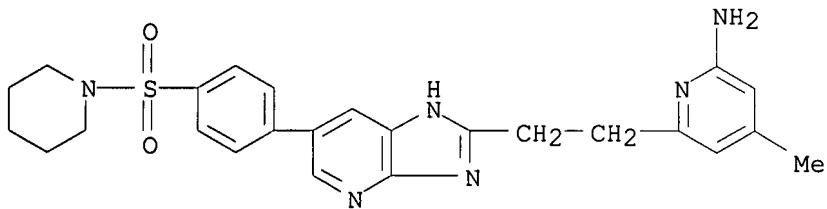
RN 857379-75-0 CAPLUS
 CN Phenol, 3-[(2-[(6-amino-4-methyl-2-pyridinyl)ethyl]-1H-imidazo[4,5-b]pyridin-6-yl]- (9CI) (CA INDEX NAME)



RN 857379-76-1 CAPLUS
 CN Pyrrolidine, 1-[[4-[(2-[(6-amino-4-methyl-2-pyridinyl)ethyl]-1H-imidazo[4,5-b]pyridin-6-yl)phenyl]sulfonyl]- (9CI) (CA INDEX NAME)

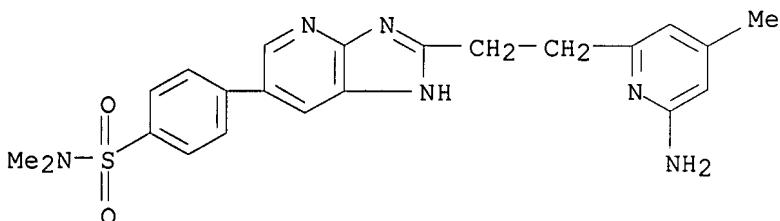


RN 857379-77-2 CAPLUS
 CN Piperidine, 1-[[4-[(2-[(6-amino-4-methyl-2-pyridinyl)ethyl]-1H-imidazo[4,5-b]pyridin-6-yl)phenyl]sulfonyl]- (9CI) (CA INDEX NAME)



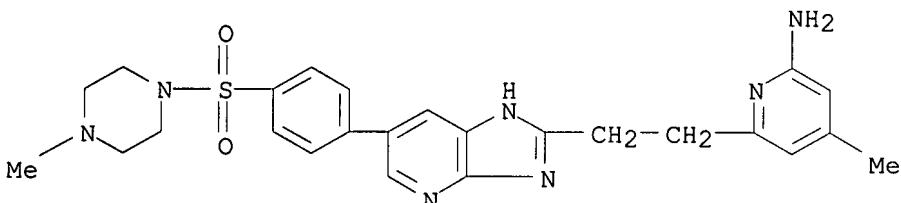
RN 857379-78-3 CAPLUS

CN Benzenesulfonamide, 4-[2-[2-(6-amino-4-methyl-2-pyridinyl)ethyl]-1H-imidazo[4,5-b]pyridin-6-yl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



RN 857379-79-4 CAPLUS

CN Piperazine, 1-[[4-[2-[2-(6-amino-4-methyl-2-pyridinyl)ethyl]-1H-imidazo[4,5-b]pyridin-6-yl]phenyl]sulfonyl]-4-methyl- (9CI) (CA INDEX NAME)



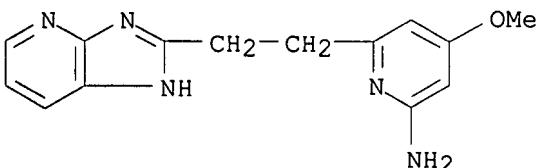
RN 857379-81-8 CAPLUS

CN 2-Pyridinamine, 6-[2-(1H-imidazo[4,5-b]pyridin-2-yl)ethyl]-4-methoxy-, trifluoroacetate (9CI) (CA INDEX NAME)

CM 1

CRN 857379-80-7

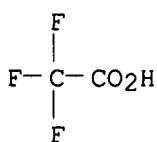
CMF C14 H15 N5 O



CM 2

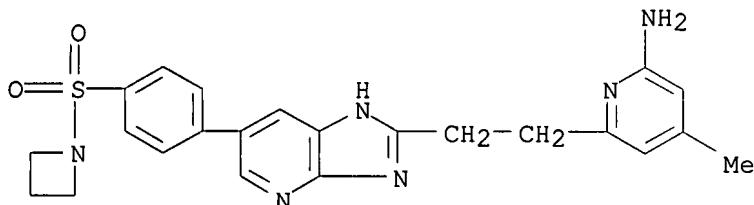
CRN 76-05-1

CMF C2 H F3 O2



RN 857380-22-4 CAPLUS

CN Azetidine, 1-[4-[2-[2-(6-amino-4-methyl-2-pyridinyl)ethyl]-1H-imidazo[4,5-b]pyridin-6-yl]phenylsulfonyl]- (9CI) (CA INDEX NAME)

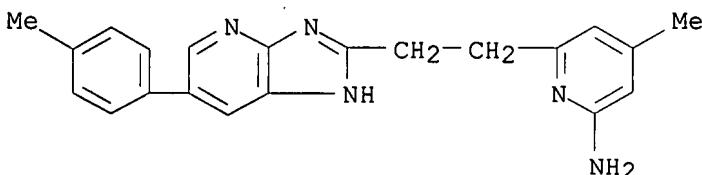


IT 857379-60-3

RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation of (aminopyridinylethyl)imidazolopyridine derivs. useful as
inducible NO-synthase inhibitors)

RN 857379-60-3 CAPLUS

CN 2-Pyridinamine, 4-methyl-6-[2-[6-(4-methylphenyl)-1H-imidazo[4,5-b]pyridin-2-yl]ethyl]-, hydrochloride (9CI) (CA INDEX NAME)



● x HCl

REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d his

(FILE 'HOME' ENTERED AT 12:53:39 ON 25 APR 2007)

FILE 'REGISTRY' ENTERED AT 12:53:49 ON 25 APR 2007

L1 STRUCTURE uploaded

L2 0 S L1

L3 27 S L1 FULL

FILE 'CAPLUS' ENTERED AT 12:54:35 ON 25 APR 2007

L4 2 S L3 FULL

=> log y

COST IN U.S. DOLLARS

SINCE FILE ENTRY	TOTAL SESSION
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FULL ESTIMATED COST	11.01	183.32
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
CA SUBSCRIBER PRICE	ENTRY	SESSION
	-1.56	-1.56

STN INTERNATIONAL LOGOFF AT 12:55:20 ON 25 APR 2007